

# RESPIN REB POWDER

## Resin

### PRODUCT DESCRIPTION

Respin REB Powder is a natural thermoplastic resin derived from the *Araucaria angustifolia* tree by the alcoholic extraction of its special resinous parts. This is a powdered product, with a reddish-brown color.

### SPECIFICATIONS

Acid Index, ASTM D-465 (mg KOH/g)	2 – 8
Softening Point, ASTM E-28 (B&R °C)	80 – 100
pH in ethanol solution, ASTM E-70	3.0 to 6.5
Volatiles (%), ASTM D-1259	Less than 4.0%

### APPLICATIONS

The dosage of Respin REB Powder necessary to obtain the necessary results will vary depending on the application. We suggest that trial mixes be conducted to determine the optimal dosage to obtain the customer's desired results in the application of the product.

#### Flexographic Inks:

Respin REB Powder is a raw material utilized in the production of alcohol-based flexographic inks, rendering gloss, flexibility, prompt drying and adherence.

#### Example Formulation:

Product	Weight (%)
Respin REB Powder	30 - 40%
Dye/Pigment	1 - 10%
Ethanol	Enough to reach 100%

#### Fireworks:

The alcoholic solution of our product can be used in several ways: the impregnation of paper used in the production of fireworks protecting against moisture and as a binder that holds the mixture together and helps produce a vivid color.

#### Example Formulation:

Product	Weight (%)
Respin REB Powder	15.69%
Ethanol	41.84%
Potassium Chlorate	26.15%
Sulfur	10.04%
Iron Oxide (Powder)	2.61%
Plaster (gypsum)	2.09%
Lithopone	1.04%
Infusory Earth	0.52%



#### Mirrors:

Used as a fixing and protection varnish for the layer of Silver Nitrate in the production of mirrors.

#### Capping Cement for Lamps:

Our product is used in the production of the cement that binds the bulb to the lamp, as a phenolic resin plasticizer.

#### Example Formulation:

Product	Weight (%)
Respin REB Powder	3%
Ethanol	20%
Phenolic Resin	3%
Fillers (sand, litopone and stones)	73%
Malachite and/or hexamethyl-tetra-amine	1%

#### Polish for Wooden Surfaces:

##### Example Formulations:

Product	Weight (%)
Respin REB Powder	19%
Methyl-cetone peroxide	10%
Carbowaxy 5243*	5%
Ethanol	65%
Fragrance	1%

\*Carbowaxy 5243 is a fumaric resin supplied by Polytrade

#### Furniture:

Respin REB Powder can be used together with the Indian shellac gum to improve the quality of the varnish coating in relation to gloss and time of drying. Also, it can be used in combination with other synthetic resins, mainly those produced from colophony, nitrocellulose and P.V.A. Respin REB Powder can be dissolved in ethanol to make liquid varnish for wood finish, for instance:

Product	Weight (%)
Respin REB Powder	40.0%
Ethanol	60.0%

#### **SOLUBILITY**

- Soluble in: ethanol, methanol, acetone, esters.
- Insoluble in: aliphatic, aromatic and water.

#### **PACKAGING**

- Paper bags of 25 kg (55 lbs)
- Super Bags of 1,000 kg (2,204.62 lbs)
- We recommend storage in dry and fresh places.

#### **PRODUCT INFORMATION AND SAFETY**

Please read our Safety Data Sheet (SDS) and our Material Safety Data Sheet (MSDS) for detailed information.

*Note: The information given here is valid at the time of publication and Polytrade reserves the right to amend any without notice. We try our best to keep our records up to date, but if you want the latest information, contact one of our agents. Also, the data and suggestions regarding this product are given in good faith, but without guarantee, since the ultimate use of our products is beyond our control.*